

## WEST Search History

DATE: Thursday, December 19, 2002

**Set Name Query**  
**side by side**

**Hit Count Set Name**  
**result set**

*DB=USPT,PGPB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;  
OP=ADJ*

L13	(purification or preparing or isolation or isolating ) same troponin and (protected or protecting)	14	L13
L12	(purification or preparing or isolation or isolating ) same troponin same mercaptoethanol	12	L12
L11	troponin same mercaptoethanol and (protecting or protected)	2	L11
L10	troponin same mercaptoethanol	20	L10
L9	troponin and sulfhydryl same reducing	6	L9
L8	troponin and reducing same reagent?	25	L8
L7	troponin same reducing same reagent?	0	L7
L6	4421685.pn.	4	L6
L5	4421685	22	L5
L4	conn-gregory.in.	3	L4
L3	sulfitolysis same protein?	29	L3
L2	(sodium adj sulfite) same sulfhydryl and (protecting or protected) and protein?	4	L2
L1	(sodium adj sulfite) same sulfhydryl and (protecting or protected) same protein?	1	L1

END OF SEARCH HISTORY

**WEST**

Generate Collection

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**Search Results - Record(s) 1 through 14 of 14 returned.**

## 1. Document ID: US 20020127602 A1

L13: Entry 1 of 14

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127602

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127602 A1

TITLE: Troponin I polypeptide fragments and uses thereof

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shi, Qinwei	Etobicoke		CA	
Liu, Shigui	Mississauga		CA	
Ling, Mingfu	Toronto		CA	

US-CL-CURRENT: 435/7.1; 435/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FindC	Draw Desc	Image
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## 2. Document ID: US 20020064835 A1

L13: Entry 2 of 14

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020064835 A1

TITLE: Purification of human troponin I

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conn, Gregory	Cary	NC	US	
Reardon, Brian	Seattle	WA	US	
Zeng, Xianfang	Northborough	MA	US	
Zhang, Chenming	Blacksburg	VA	US	

US-CL-CURRENT: 435/71.2; 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FindC	Draw Desc	Image
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## 3. Document ID: US 20020055145 A1

L13: Entry 3 of 14

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055145  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020055145 A1

TITLE: Purification of human troponin I

PUBLICATION-DATE: May 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conn, Gregory	Cary	NC	US	
Reardon, Brian	Seattle	WA	US	
Zeng, Xianfang	Northborough	MA	US	
Zhang, Chenming	Blacksburg	VA	US	

US-CL-CURRENT: 435/69.1; 530/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMOC	Draw Desc	Image
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## 4. Document ID: US 6245335 B1

L13: Entry 4 of 14

File: USPT

Jun 12, 2001

US-PAT-NO: 6245335  
DOCUMENT-IDENTIFIER: US 6245335 B1

TITLE: Choline binding proteins for anti-pneumococcal vaccines

DATE-ISSUED: June 12, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masure, H. Robert	Germantown	TN		
Rosenow, Carsten I.	New York	NY		
Tuomanen, Elaine	Germantown	TN		
Wizemann, Theresa M.	Germantown	MD		

US-CL-CURRENT: 424/190.1; 424/244.1, 530/350, 530/825

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMOC	Draw Desc	Image
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## 5. Document ID: US 6117976 A

L13: Entry 5 of 14

File: USPT

Sep 12, 2000

US-PAT-NO: 6117976  
DOCUMENT-IDENTIFIER: US 6117976 A

TITLE: Manufacture and use of polypeptides tagged using binding molecules

DATE-ISSUED: September 12, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Neri; Dario	Cherry Hinton			GB
Winter; Gregory Paul	Cambridge			GB
De Lalla; Claudia	Milan			IT

US-CL-CURRENT: 530/350; 435/69.1, 435/7.1, 530/387.3, 530/402

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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## 6. Document ID: US 5925564 A

L13: Entry 6 of 14

File: USPT

Jul 20, 1999

US-PAT-NO: 5925564

DOCUMENT-IDENTIFIER: US 5925564 A

TITLE: Expression vector systems and method of use

DATE-ISSUED: July 20, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwartz; Robert J.	Houston	TX		
DeMayo; Franco J.	Houston	TX		
O'Malley; Bert W.	Houston	TX		

US-CL-CURRENT: 435/325; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 7. Document ID: US 5846738 A

L13: Entry 7 of 14

File: USPT

Dec 8, 1998

US-PAT-NO: 5846738

DOCUMENT-IDENTIFIER: US 5846738 A

TITLE: Synthetic standard for immunoassays

DATE-ISSUED: December 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seidel; Christoph	Weilheim			DE
Bialk; Peter	Eberfing			DE
Von der Eltz; Herbert	Weilheim			DE

US-CL-CURRENT: 435/7.1; 435/13, 435/5, 435/69.3, 435/7.9, 435/7.92, 435/961,  
435/967, 435/973, 436/517, 436/518, 436/536, 436/8, 530/324, 530/325, 530/326,  
530/327, 530/328, 530/329, 530/350, 530/806

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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## 8. Document ID: US 5843710 A

L13: Entry 8 of 14

File: USPT

Dec 1, 1998

US-PAT-NO: 5843710

DOCUMENT-IDENTIFIER: US 5843710 A

TITLE: Vaccines against animal parasitic nematodes

DATE-ISSUED: December 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cobon; Gary Stewart	Frenchs Forest			AU
Austen; Rosemary Ann	East Gosford			AU
O'Donnell; Ian Joseph	Gardenvale			AU
Frenkel; Maurice Joseph	South Caulfield			AU
Kennedy; William Peter Keith	Willoughby			AU
Savin; Keith William	Caulfield South			AU
Wagland; Barry Maxwell	Carlingford			AU

US-CL-CURRENT: 435/69.1; 424/130.1, 424/184.1, 424/265.1, 435/252.3, 435/320.1,  
435/7.22, 530/350, 530/387.1, 530/388.6, 530/412, 536/23.1, 536/23.4, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 9. Document ID: US 5843706 A

L13: Entry 9 of 14

File: USPT

Dec 1, 1998

US-PAT-NO: 5843706

DOCUMENT-IDENTIFIER: US 5843706 A

TITLE: Vaccines against animal parasitic nematodes

DATE-ISSUED: December 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cobon; Gary Stewart	Frenchs Forest			AU
Austen; Rosemary Ann	East Gosford			AU
O'Donnell; Ian Joseph	Gardenvale			AU
Frenkel; Maurice Joseph	South Caulfield			AU
Kennedy; William Peter Keith	Willoughby			AU
Savin; Keith William	Caulfield South			AU
Wagland; Barry Maxwell	Carlingford			AU

US-CL-CURRENT: 435/69.1; 424/130.1, 424/186.1, 424/265.1, 435/252.3, 435/320.1,  
435/69.7, 530/300, 530/350, 530/387.1, 530/388.6, 536/23.1, 536/23.4, 536/23.5,  
536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 10. Document ID: US 5834220 A

L13: Entry 10 of 14

File: USPT

Nov 10, 1998

US-PAT-NO: 5834220

DOCUMENT-IDENTIFIER: US 5834220 A

TITLE: Assay for cardiac troponin I

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wicks; Richard W.	St. Marys	PA		
Zartman; Leslie O.	DuBois	PA		
Vargas; Annette M.	Penfield	PA		
Torretti; Stacy A.	Sykesville	PA		

US-CL-CURRENT: 435/7.92; 435/7.93, 435/7.94, 435/7.95, 435/975, 436/518, 436/531,  
436/808, 436/811, 530/326, 530/388.85, 530/389.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FIG. 1	Draw. Desc.	Image
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## 11. Document ID: US 5756682 A

L13: Entry 11 of 14

File: USPT

May 26, 1998

US-PAT-NO: 5756682

DOCUMENT-IDENTIFIER: US 5756682 A

TITLE: Assay for cardiac troponin I

DATE-ISSUED: May 26, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wicks; Richard W.	St. Marys	PA	15857	
Zartman; Leslie O.	DuBois	PA	15801	
Vargas; Annette M.	Penfield	PA	15849	
Torretti; Stacy A.	Sykesville	PA	15865	

US-CL-CURRENT: 530/387.9; 530/387.1, 530/388.1, 530/388.15, 530/389.1, 530/413

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FIG. 1	Draw. Desc.	Image
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## 12. Document ID: US 5756264 A

L13: Entry 12 of 14

File: USPT

May 26, 1998

US-PAT-NO: 5756264

DOCUMENT-IDENTIFIER: US 5756264 A

TITLE: Expression vector systems and method of use

DATE-ISSUED: May 26, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwartz; Robert J.	Houston	TX		
DeMayo; Franco J.	Houston	TX		
O'Malley; Bert W.	Houston	TX		

US-CL-CURRENT: 424/93.2; 424/93.21, 435/252.3, 435/320.1, 435/325, 435/349, 435/455,  
435/465, 435/6, 514/44, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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! 13. Document ID: US 5298422 A

L13: Entry 13 of 14

File: USPT

Mar 29, 1994

US-PAT-NO: 5298422

DOCUMENT-IDENTIFIER: US 5298422 A

TITLE: Myogenic vector systems

DATE-ISSUED: March 29, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwartz; Robert J.	Houston	TX		
DeMayo; Franco J.	Houston	TX		
O'Malley; Bert W.	Houston	TX		

US-CL-CURRENT: 435/320.1; 435/69.1, 435/69.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMNC	Draw Desc	Image
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! 14. Document ID: WO 200204512 A2 US 20020064835 A1 AU 200173348 A US  
20020055145 A1

L13: Entry 14 of 14

File: DWPI

Jan 17, 2002

DERWENT-ACC-NO: 2002-154921

DERWENT-WEEK: 200240

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TITLE: Purifying troponin I comprises subjecting troponin I to chromatography on  
anion exchanger after reversibly protecting the free sulfhydryl groups

INVENTOR: CONN, G; REARDON, B ; ZENG, X ; ZHANG, C

PRIORITY-DATA: 2000US-217069P (July 10, 2000), 2001US-0903398 (July 10, 2001),  
2001US-0998619 (November 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200204512 A2	January 17, 2002	E	028	C07K014/47
US 20020064835 A1	May 30, 2002		000	C12P021/04
AU 200173348 A	January 21, 2002		000	C07K014/47
US 20020055145 A1	May 9, 2002		000	C12P021/02

INT-CL (IPC): A61 K 38/00; C07 K 1/16; C07 K 14/47; C12 P 21/02; C12 P 21/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
PURIFICATION.DWPI,TDBD,EPAB,USPT,PGPB.	240059
PURIFICN.DWPI,TDBD,EPAB,USPT,PGPB.	34428
PREPARING.DWPI,TDBD,EPAB,USPT,PGPB.	474861
PREPARINGS.DWPI,TDBD,EPAB,USPT,PGPB.	3
ISOLATION.DWPI,TDBD,EPAB,USPT,PGPB.	250330
ISOLATIONS.DWPI,TDBD,EPAB,USPT,PGPB.	2351
ISOLATING.DWPI,TDBD,EPAB,USPT,PGPB.	153700
ISOLATINGS.DWPI,TDBD,EPAB,USPT,PGPB.	1
TROPONIN.DWPI,TDBD,EPAB,USPT,PGPB.	841
TROPONINS.DWPI,TDBD,EPAB,USPT,PGPB.	63
((PURIFICATION OR PREPARING OR ISOLATION OR ISOLATING ) SAME TROPONIN AND (PROTECTED OR PROTECTING)).USPT,PGPB,EPAB,DWPI,TDBD.	14

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**Search Results - Record(s) 1 through 12 of 12 returned.****1. Document ID: US 20020193287 A1**

L12: Entry 1 of 12

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020193287

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020193287 A1

TITLE: Stabilization of cardiac troponin I subunits and complexes

PUBLICATION-DATE: December 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dave, Kirti I.	Thousand Oaks	CA	US	
Fernandez, Brian Robert	Tarzana	CA	US	

US-CL-CURRENT: 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**2. Document ID: US 6491923 B1**

L12: Entry 2 of 12

File: USPT

Dec 10, 2002

US-PAT-NO: 6491923

DOCUMENT-IDENTIFIER: US 6491923 B1

TITLE: Stabilized conjugates of uncomplexed subunits of multimeric proteins

DATE-ISSUED: December 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dave ; Kirti I.	Thousand Oaks	CA		
Botyanszki; Janos	Camarillo	CA		
Sintar; Eva	Oxnard	CA		

US-CL-CURRENT: 424/193.1; 435/15; 514/970; 530/412; 530/418; 530/421; 530/810

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**3. Document ID: US 6465431 B1**

L12: Entry 3 of 12

File: USPT

Oct 15, 2002

US-PAT-NO: 6465431

DOCUMENT-IDENTIFIER: US 6465431 B1

TITLE: Pharmaceutical compositions comprising troponin subunits, fragments and homologs thereof and methods of their use to inhibit angiogenesis

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorn; Richard M.	North Easton	MA		
Lanser; Marc E.	Dover	MA		
Moses; Marsha A.	Brookline	MA		
Wiederschain; Dmitri G.	Brookline	MA		

US-CL-CURRENT: 514/16; 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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4. Document ID: US 6403558 B1

L12: Entry 4 of 12

File: USPT

Jun 11, 2002

US-PAT-NO: 6403558

DOCUMENT-IDENTIFIER: US 6403558 B1

TITLE: Pharmaceutical compositions comprising troponin subunits, fragments and analogs thereof and methods of their use to inhibit angiogenesis

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moses; Marsha A.	Brookline	MA		
Langer; Robert S.	Newton	MA		
Wiederschain; Dimitri G.	Brookline	MA		
Wu; Inmin	Boston	MA		
Sytkowski; Arthur	Arlington	MA		

US-CL-CURRENT: 514/12; 514/21; 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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5. Document ID: US 6174686 B1

L12: Entry 5 of 12

File: USPT

Jan 16, 2001

US-PAT-NO: 6174686

DOCUMENT-IDENTIFIER: US 6174686 B1

TITLE: Methods for the assay of troponin I and T and complexes of troponin I and T and selection of antibodies for use in immunoassays

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buechler; Kenneth F.	San Diego	CA		
McPherson; Paul H.	Encinitas	CA		

US-CL-CURRENT: 435/7.1; 435/7.2, 435/7.5, 435/7.71, 435/7.72, 435/7.8, 435/7.95, 435/960, 435/962, 435/971, 435/973, 436/518, 436/523, 436/528, 436/535, 436/538, 436/811, 436/819

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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6. Document ID: US 6156521 A

L12: Entry 6 of 12

File: USPT

Dec 5, 2000

US-PAT-NO: 6156521

DOCUMENT-IDENTIFIER: US 6156521 A

TITLE: Methods for the recovery and measurement of troponin complexes

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buechler; Kenneth F.	San Diego	CA		
McPherson; Paul H.	Encinitas	CA		

US-CL-CURRENT: 435/7.1; 435/7.2, 435/7.5, 435/7.71, 435/7.72, 435/7.8, 435/7.95, 435/960, 435/962, 435/971, 435/973, 436/518, 436/523, 436/528, 436/535, 436/538, 436/811, 436/819

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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7. Document ID: US 6060278 A

L12: Entry 7 of 12

File: USPT

May 9, 2000

US-PAT-NO: 6060278

DOCUMENT-IDENTIFIER: US 6060278 A

TITLE: Stable troponin subunits and complexes

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Shigui	Toronto			CA
Shi; Qinwei	Etobicoke			CA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/252.33, 435/320.1, 536/23.4, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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8. Document ID: US 6025331 A

L12: Entry 8 of 12

File: USPT

Feb 15, 2000

US-PAT-NO: 6025331

DOCUMENT-IDENTIFIER: US 6025331 A

TITLE: Pharmaceutical compositions comprising troponin subunits, fragments and analogs thereof and methods of their use to inhibit angiogenesis

DATE-ISSUED: February 15, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moses; Marsha A.	Brookline	MA		
Langer; Robert S.	Newton	MA		
Wiederschain; Dimitri G.	Brookline	MA		
Wu; Inmin	Boston	MA		
Sytkowski; Arthur	Arlington	MA		

US-CL-CURRENT: 514/12; 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 9. Document ID: US 5947124 A

L12: Entry 9 of 12

File: USPT

Sep 7, 1999

US-PAT-NO: 5947124

DOCUMENT-IDENTIFIER: US 5947124 A

TITLE: Diagnostic for determining the time of a heart attack

DATE-ISSUED: September 7, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buechler; Kenneth Francis	San Diego	CA		
McPherson; Paul H.	Encinitas	CA		

US-CL-CURRENT: 128/898; 600/358

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 10. Document ID: US 5837680 A

L12: Entry 10 of 12

File: USPT

Nov 17, 1998

US-PAT-NO: 5837680

DOCUMENT-IDENTIFIER: US 5837680 A

TITLE: Pharmaceutical compositions comprising troponin subunits, fragments and analogs thereof and methods of their use to inhibit angiogenesis

DATE-ISSUED: November 17, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moses; Marsha A.	Brookline	MA		
Langer; Robert S.	Newton	MA		
Wiederschain; Dimitri G.	Brookline	MA		
Wu; Inmin	Boston	MA		
Sytkowski; Arthur	Arlington	MA		

US-CL-CURRENT: 514/12; 514/21, 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 11. Document ID: US 5834210 A

L12: Entry 11 of 12

File: USPT

Nov 10, 1998

US-PAT-NO: 5834210

DOCUMENT-IDENTIFIER: US 5834210 A

TITLE: Stable troponin subunits and complexes

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Shigui	Toronto			CA
Shi; Qinwei	Etobicoke			CA

US-CL-CURRENT: 435/7.1; 435/69.1, 530/402, 530/403

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 12. Document ID: US 5795725 A

L12: Entry 12 of 12

File: USPT

Aug 18, 1998

US-PAT-NO: 5795725

DOCUMENT-IDENTIFIER: US 5795725 A

TITLE: Methods for the assay of troponin I and T and selection of antibodies for use in immunoassays

DATE-ISSUED: August 18, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buechler; Kenneth F.	San Diego	CA		
McPherson; Paul H.	San Diego	CA		

US-CL-CURRENT: 435/7.1; 435/7.2, 435/7.5, 435/7.71, 435/7.72, 435/7.8, 435/7.9, 435/7.92, 435/7.93, 435/7.94, 435/7.95, 435/960, 435/962, 435/971, 435/973, 436/518, 436/528, 436/533, 436/535, 436/538, 436/811, 436/819

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
PURIFICATION.DWPI,TDBD,EPAB,USPT,PGPB.	240059
PURIFICN.DWPI,TDBD,EPAB,USPT,PGPB.	34428
PREPARING.DWPI,TDBD,EPAB,USPT,PGPB.	474861
PREPARINGS.DWPI,TDBD,EPAB,USPT,PGPB.	3
ISOLATION.DWPI,TDBD,EPAB,USPT,PGPB.	250330
ISOLATIONS.DWPI,TDBD,EPAB,USPT,PGPB.	2351
ISOLATING.DWPI,TDBD,EPAB,USPT,PGPB.	153700
ISOLATINGS.DWPI,TDBD,EPAB,USPT,PGPB.	1
TROPONIN.DWPI,TDBD,EPAB,USPT,PGPB.	841
TROPONINS.DWPI,TDBD,EPAB,USPT,PGPB.	63
MERCAPTOETHANOL.DWPI,TDBD,EPAB,USPT,PGPB.	18593
((PURIFICATION OR PREPARING OR ISOLATION OR ISOLATING ) SAME TROPONIN SAME MERCAPTOETHANOL).USPT,PGPB,EPAB,DWPI,TDBD.	12

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**Search Results - Record(s) 1 through 6 of 6 returned.****1. Document ID: US 20020072590 A1**

L9: Entry 1 of 6

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072590  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020072590 A1

TITLE: Methods and kits for separation and detection of proteins in biological samples

PUBLICATION-DATE: June 13, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Van Eyk, Jennifer E.	Kingston		CA	
Labugger, Ralf	Kingston		CA	
Neverova, Irena	Kingston		CA	
Colantonio, David A.	Kingston		CA	
Simpson, Jeremy A.	Kingston		CA	

US-CL-CURRENT: [530/412](#); [436/516](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**2. Document ID: US 20020064835 A1**

L9: Entry 2 of 6

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064835  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020064835 A1

TITLE: Purification of human troponin I

PUBLICATION-DATE: May 30, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Conn, Gregory	Cary	NC	US	
Reardon, Brian	Seattle	WA	US	
Zeng, Xianfang	Northborough	MA	US	
Zhang, Chenming	Blacksburg	VA	US	

US-CL-CURRENT: [435/71.2](#); [514/2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 3. Document ID: US 20020055145 A1

L9: Entry 3 of 6

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055145  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020055145 A1

TITLE: Purification of human troponin I

PUBLICATION-DATE: May 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conn, Gregory	Cary	NC	US	
Reardon, Brian	Seattle	WA	US	
Zeng, Xianfang	Northborough	MA	US	
Zhang, Chenming	Blacksburg	VA	US	

US-CL-CURRENT: 435/69.1; 530/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMMC	Draw Desc	Image
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## 4. Document ID: US 5919442 A

L9: Entry 4 of 6

File: USPT

Jul 6, 1999

US-PAT-NO: 5919442  
DOCUMENT-IDENTIFIER: US 5919442 A

TITLE: Hyper comb-branched polymer conjugates

DATE-ISSUED: July 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yin; Rui	Midland	MI		
Tomalia; Donald A.	Midland	MI		
Hedstrand; David M.	Midland	MI		
Swanson; Douglas R.	Midland	MI		
Baker, Jr.; James R.	Ann Arbor	MI		
Kukowska-Latallo; Jolanta F.	Ann Arbor	MI		

US-CL-CURRENT: 424/78.18; 424/1.11, 424/1.33, 424/1.37, 424/178.1, 424/184.1,  
424/193.1, 424/280.1, 424/405, 424/406, 424/422, 424/486, 424/487, 424/78.01,  
424/78.19, 424/84, 424/85.1, 424/9.1, 424/DIG.16, 435/455, 514/44, 514/772, 525/417,  
525/539, 525/902

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMMC	Draw Desc	Image
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## 5. Document ID: WO 200216947 A2 AU 200187423 A US 20020072590 A1

L9: Entry 5 of 6

File: DWPI

Feb 28, 2002

DERWENT-ACC-NO: 2002-382843



DERWENT-WEEK: 200247

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TITLE: Separating protein mixture in biological sample, by mixing the sample and solution comprising sulphydryl reducing agent and charged detergents to denature albumin, and subjecting the mixture to separation technique

INVENTOR: COLANTONIO, D A; LABUGGER, R ; NEVEROVA, I ; SIMPSON, J A ; VAN EYK, J E ; COLANTONIO, D ; SIMPSON, J

PRIORITY-DATA: 2001US-308948P (July 30, 2001), 2000US-226588P (August 21, 2000), 2001US-0934297 (August 21, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200216947 A2	February 28, 2002	E	050	G01N033/68
AU 200187423 A	March 4, 2002		000	G01N033/68
US 20020072590 A1	June 13, 2002		000	C07K001/00

INT-CL (IPC): C07 K 1/00; G01 N 33/561; G01 N 33/68

Full	Title	Citation	Front	Renew	Classification	Date	Reference	Sequences	Attachments
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6. Document ID: WO 200204512 A2 US 20020064835 A1 AU 200173348 A US 20020055145 A1

L9: Entry 6 of 6

File: DWPI

Jan 17, 2002

DERWENT-ACC-NO: 2002-154921

DERWENT-WEEK: 200240

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TITLE: Purifying troponin I comprises subjecting troponin I to chromatography on anion exchanger after reversibly protecting the free sulphydryl groups

INVENTOR: CONN, G; REARDON, B ; ZENG, X ; ZHANG, C

PRIORITY-DATA: 2000US-217069P (July 10, 2000), 2001US-0903398 (July 10, 2001), 2001US-0998619 (November 30, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200204512 A2	January 17, 2002	E	028	C07K014/47
US 20020064835 A1	May 30, 2002		000	C12P021/04
AU 200173348 A	January 21, 2002		000	C07K014/47
US 20020055145 A1	May 9, 2002		000	C12P021/02

INT-CL (IPC): A61 K 38/00; C07 K 1/16; C07 K 14/47; C12 P 21/02; C12 P 21/04


Full	Title	Citation	Front	Renew	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
TROPONIN.DWPI,TDBD,EPAB,USPT,PGPB.	841
TROPONINS.DWPI,TDBD,EPAB,USPT,PGPB.	63
SULFHYDRYL.DWPI,TDBD,EPAB,USPT,PGPB.	9466
SULFHYDRYLS.DWPI,TDBD,EPAB,USPT,PGPB.	725
REDUCING.DWPI,TDBD,EPAB,USPT,PGPB.	1098737
REDUCINGS.DWPI,TDBD,EPAB,USPT,PGPB.	10
(TROPONIN AND (SULFHYDRYL SAME REDUCING)).USPT,PGPB,EPAB,DWPI,TDBD.	6
(TROPONIN AND SULFHYDRYL SAME REDUCING).USPT,PGPB,EPAB,DWPI,TDBD.	6

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## WEST Search History

DATE: Thursday, December 19, 2002

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=USPT,PGPB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;  
OP=ADJ*

L3	sulfitolysis same protein?	29	L3
L2	(sodium adj sulfite) same sulfhydryl and (protecting or protected) and protein?	4	L2
L1	(sodium adj sulfite) same sulfhydryl and (protecting or protected) same protein?	1	L1

END OF SEARCH HISTORY

**WEST**

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**Search Results - Record(s) 1 through 29 of 29 returned.****1. Document ID: US 20020164712 A1**

L3: Entry 1 of 29

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164712  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020164712 A1

TITLE: Chimeric protein containing an intramolecular chaperone-like sequence

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gan, Zhong-Ru	Tonghua City		CN	

US-CL-CURRENT: 435/69.4; 435/226, 435/320.1, 435/325, 530/303, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**2. Document ID: US 6342585 B1**

L3: Entry 2 of 29

File: USPT

Jan 29, 2002

US-PAT-NO: 6342585  
DOCUMENT-IDENTIFIER: US 6342585 B1

TITLE: Method of activating denatured protein

DATE-ISSUED: January 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grossmann; Adelbert	Eglfing			DE

US-CL-CURRENT: 530/351; 435/254.1, 435/254.2, 435/69.1, 435/69.4, 435/69.5, 530/350, 530/399, 530/402, 530/404, 530/406, 530/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**3. Document ID: US 6331415 B1**

L3: Entry 3 of 29

File: USPT

Dec 18, 2001

US-PAT-NO: 6331415  
DOCUMENT-IDENTIFIER: US 6331415 B1

TITLE: Methods of producing immunoglobulins, vectors and transformed host cells for

use therein

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cabilly; Shmuel	Monrovia	CA		
Heyneker; Herbert L.	Burlingame	CA		
Holmes; William E.	Pacifica	CA		
Riggs; Arthur D.	La Verne	CA		
Wetzel; Ronald B.	San Francisco	CA		

US-CL-CURRENT: 435/69.6; 435/252.1, 435/252.3, 435/252.33, 435/254.11, 435/254.2,  
435/254.21, 435/320.1, 435/455, 435/471, 435/483, 435/485, 435/69.1, 435/69.7,  
435/70.1, 435/70.21, 435/71.1, 435/71.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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4. Document ID: US 6322779 B1

L3: Entry 4 of 29

File: USPT

Nov 27, 2001

US-PAT-NO: 6322779

DOCUMENT-IDENTIFIER: US 6322779 B1

TITLE: Recombinant human CSF-1 dimer and compositions thereof

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halenbeck; Robert	San Rafael	CA		
Koths; Kirston	El Cerrito	CA		
Cowgill; Cynthia	Berkeley	CA		
Laird; Walter J.	Pinole	CA		

US-CL-CURRENT: 424/85.1; 514/8, 530/351, 930/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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5. Document ID: US 6001604 A

L3: Entry 5 of 29

File: USPT

Dec 14, 1999

US-PAT-NO: 6001604

DOCUMENT-IDENTIFIER: US 6001604 A

TITLE: Refolding of proinsulins without addition of reducing agents

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartman; Jacob R.	Holon			IL
Mendelovitz; Simona	Tel Aviv			IL
Gorecki; Marian	Rehovot			IL

US-CL-CURRENT: 435/69.4; 435/68.1, 435/69.7, 530/344, 530/412, 530/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC	Draw Desc	Image
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## 6. Document ID: US 5962267 A

L3: Entry 6 of 29

File: USPT

Oct 5, 1999

US-PAT-NO: 5962267

DOCUMENT-IDENTIFIER: US 5962267 A

TITLE: Proinsulin derivative and process for producing human insulin

DATE-ISSUED: October 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shin; Hang-Cheol	Kwanamyung-shi			KR
Chang; Seung-Gu	Seoul			KR
Kim; Dae-Young	Bucheon-shi			KR
Kim; Chong-Suhl	Taegu			KR

US-CL-CURRENT: 435/69.4; 435/243, 435/320.1, 435/325, 435/69.7, 530/303, 530/324,  
536/23.4, 536/23.51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC	Draw Desc	Image
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## 7. Document ID: US 5861150 A

L3: Entry 7 of 29

File: USPT

Jan 19, 1999

US-PAT-NO: 5861150

DOCUMENT-IDENTIFIER: US 5861150 A

TITLE: Recombinant human CSF-1 dimer and compositions thereof

DATE-ISSUED: January 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halenbeck; Robert	San Rafael	CA		
Koths; Kirston	El Cerrito	CA		
Cowgill; Cynthia	Berkeley	CA		
Laird; Walter J.	Pinole	CA		

US-CL-CURRENT: 424/85.1; 530/351, 930/140, 930/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC	Draw Desc	Image
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## 8. Document ID: US 5834042 A

L3: Entry 8 of 29

File: USPT

Nov 10, 1998

US-PAT-NO: 5834042

DOCUMENT-IDENTIFIER: US 5834042 A

TITLE: Method for isolating whey proteins

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Savolainen; Jouko	FIN-02700 Kauniainen			FI

US-CL-CURRENT: 426/41; 424/535, 426/583, 514/2, 530/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 9. Document ID: US 5651963 A

L3: Entry 9 of 29

File: USPT

Jul 29, 1997

US-PAT-NO: 5651963

DOCUMENT-IDENTIFIER: US 5651963 A

TITLE: Heterodimers forms of CSF-1 and pharmaceutical compositions thereof

DATE-ISSUED: July 29, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halenbeck; Robert	San Rafael	CA		
Koths; Kirston	El Cerrito	CA		
Cowgill; Cynthia	Berkeley	CA		
Laird; Walter J.	Pinole	CA		

US-CL-CURRENT: 424/85.1; 435/69.5, 530/351, 930/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 10. Document ID: US 5606031 A

L3: Entry 10 of 29

File: USPT

Feb 25, 1997

US-PAT-NO: 5606031

DOCUMENT-IDENTIFIER: US 5606031 A

TITLE: Production and purification of biologically active recombinant neurotrophic protein in bacteria

DATE-ISSUED: February 25, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lile; Jack	Ventura	CA	93001	
Kohno; Tadahiko	Louisville	CO	80027	
Bonam; Duane	Amesbury	MA	01913	
Rosendahl; Mary S.	Broomsfield	CO	80020	

US-CL-CURRENT: 530/416; 530/402, 530/408, 530/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 11. Document ID: US 5439829 A

L3: Entry 11 of 29

File: USPT

Aug 8, 1995

US-PAT-NO: 5439829

DOCUMENT-IDENTIFIER: US 5439829 A

TITLE: Immobilization of biologically active molecules by changing the Oxidation state of a chelated transition metal ion

DATE-ISSUED: August 8, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Leslie D.	Encinitas	CA		
Cook; James A.	Indianapolis	IN		
David; Gary S.	La Jolla	CA		
Hochschwender; Susan M.	Del Mar	CA		
Kasher; Mary S.	Indianapolis	IN		
Smith; Michele C.	Indianapolis	IN		
Stemmer; Willem P. C.	Carlsbad	CA		

US-CL-CURRENT: 436/518; 435/174, 435/177, 435/178, 435/181, 435/71.1, 436/528, 436/529, 436/532, 436/824, 530/413, 530/810, 530/812, 530/813, 530/816

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FullC	Draw Desc	Image
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## 12. Document ID: US 5304473 A

L3: Entry 12 of 29

File: USPT

Apr 19, 1994

US-PAT-NO: 5304473

DOCUMENT-IDENTIFIER: US 5304473 A

TITLE: A-C-B proinsulin, method of manufacturing and using same, and intermediates in insulin production

DATE-ISSUED: April 19, 1994

## INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Belagaje; Rama M.	Indianapolis	IN		
DiMarchi; Richard D.	Carmel	IN		
Heath, Jr.; William F.	Indianapolis	IN		
Long; Harlan B.	Carmel	IN		

US-CL-CURRENT: 435/69.7; 435/252.33, 514/3, 530/303, 530/350, 536/23.51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 13. Document ID: US 5208217 A

L3: Entry 13 of 29

File: USPT

May 4, 1993

US-PAT-NO: 5208217

DOCUMENT-IDENTIFIER: US 5208217 A

TITLE: Hepatospecific insulin analogues

DATE-ISSUED: May 4, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katsoyannis; Panayotis G.	Manhasset	NY		

US-CL-CURRENT: 514/3; 530/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 14. Document ID: US 4992418 A

L3: Entry 14 of 29

File: USPT

Feb 12, 1991

US-PAT-NO: 4992418

DOCUMENT-IDENTIFIER: US 4992418 A

TITLE: Superactive human insulin analogue-[10-Aspartic Acid-B]Human Insulin

DATE-ISSUED: February 12, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katsoyannis; Panayctis G.	Manhasset	NY		
Schwartz; Gerald P.	Washingtonville	NY		

US-CL-CURRENT: 514/3; 514/866, 530/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 15. Document ID: US 4992417 A

L3: Entry 15 of 29

File: USPT

Feb 12, 1991

US-PAT-NO: 4992417

DOCUMENT-IDENTIFIER: US 4992417 A

TITLE: Superactive human insulin analogues

DATE-ISSUED: February 12, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katsoyannis; Panayotis G.	Manhasset	NY		
Schwartz; Gerald P.	Washingtonville	NY		

US-CL-CURRENT: 514/3; 514/866, 530/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMAC	Draw Desc	Image
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## 16. Document ID: US 4929700 A

L3: Entry 16 of 29

File: USPT

May 29, 1990

US-PAT-NO: 4929700

DOCUMENT-IDENTIFIER: US 4929700 A

TITLE: Production of purified, biologically active, bacterially produced recombinant human CSF-1

DATE-ISSUED: May 29, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halenbeck; Robert	San Rafael	CA		
Koths; Kriston	El Cerrito	CA		
Cowgill; Cynthia	Berkeley	CA		
Laird; Walter J.	Pinole	CA		

US-CL-CURRENT: 530/351; 435/69.5, 435/69.6, 435/71.2, 530/395, 530/402, 530/404, 530/405, 530/412, 530/413, 530/414, 530/415, 530/416, 530/417, 530/418, 530/419, 530/422, 530/820, 530/825

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMAC	Draw Desc	Image
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## 17. Document ID: US 4923967 A

L3: Entry 17 of 29

File: USPT

May 8, 1990

US-PAT-NO: 4923967

DOCUMENT-IDENTIFIER: US 4923967 A

TITLE: Purification and refolding of recombinant proteins

DATE-ISSUED: May 8, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bobbitt; Jesse L.	Indianapolis	IN		
Manetta; Joseph	Indianapolis	IN		

US-CL-CURRENT: 530/351; 435/69.52, 530/303, 530/350, 530/399, 530/418, 530/420,  
530/427

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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### 18. Document ID: US 4816567 A

L3: Entry 18 of 29

File: USPT

Mar 28, 1989

US-PAT-NO: 4816567

DOCUMENT-IDENTIFIER: US 4816567 A

TITLE: Recombinant immunoglobulin preparations

DATE-ISSUED: March 28, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cabilly; Shmuel	Monrovia	CA		
Heyneker; Herbert L.	Burlingame	CA		
Holmes; William E.	Pacifica	CA		
Riggs; Arthur D.	La Verne	CA		
Wetzel; Ronald B.	San Francisco	CA		

US-CL-CURRENT: 530/387.3; 435/252.3, 435/252.31, 435/252.33, 435/252.34, 435/320.1,  
435/471, 435/69.6, 530/388.85, 530/866, 530/867, 930/10, 930/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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### 19. Document ID: US 4734362 A

L3: Entry 19 of 29

File: USPT

Mar 29, 1988

US-PAT-NO: 4734362

DOCUMENT-IDENTIFIER: US 4734362 A

TITLE: Process for purifying recombinant proteins, and products thereof

DATE-ISSUED: March 29, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; Chung-Ho	Milford	MA		
Thorn; Richard	Milford	MA		
Riggin; Charles	Hopdale	MA		
Marciiani; Dante	Hopkinton	MA		

US-CL-CURRENT: 435/68.1; 435/5, 435/69.1, 435/69.3, 436/533, 436/534, 436/547,  
530/412, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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## 20. Document ID: US 4620948 A

L3: Entry 20 of 29

File: USPT

Nov 4, 1986

US-PAT-NO: 4620948

DOCUMENT-IDENTIFIER: US 4620948 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: November 4, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Builder; Stuart E.	Belmont	CA		
Ogez; John R.	San Mateo	CA		

US-CL-CURRENT: 530/419; 435/69.1, 435/69.2, 435/69.3, 435/69.4, 435/69.5, 435/69.51,  
435/69.52, 435/69.8, 436/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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## 21. Document ID: US 4599197 A

L3: Entry 21 of 29

File: USPT

Jul 8, 1986

US-PAT-NO: 4599197

DOCUMENT-IDENTIFIER: US 4599197 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: July 8, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wetzel; Ronald B.	San Francisco	CA		

US-CL-CURRENT: 530/405; 435/69.1, 435/948, 530/406, 530/416, 530/417, 530/825

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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## 22. Document ID: US 4518526 A

L3: Entry 22 of 29

File: USPT

May 21, 1985

US-PAT-NO: 4518526

DOCUMENT-IDENTIFIER: US 4518526 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: May 21, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olson; Kenneth C.	Burlingame	CA		

US-CL-CURRENT: 530/351; 424/35.4, 435/69.1, 435/69.3, 435/69.4, 435/69.51, 435/71.2,

435/948, 436/548, 530/344, 530/397, 530/399, 530/422, 530/423, 530/427, 530/806,  
530/808, 530/825, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMIC	Draw Desc	Image
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## 23. Document ID: US 4512922 A

L3: Entry 23 of 29

File: USPT

Apr 23, 1985

US-PAT-NO: 4512922

DOCUMENT-IDENTIFIER: US 4512922 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: April 23, 1985

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; Andrew J. S.	San Mateo	CA		
Olson; Kenneth C.	Burlingame	CA		
Shire; Steven J.	San Mateo	CA		

US-CL-CURRENT: 530/408; 424/216.1, 435/69.1, 435/948, 436/548, 530/351, 530/397,  
530/398, 530/399, 530/422, 530/423, 530/825, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMIC	Draw Desc	Image
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## 24. Document ID: US 4511503 A

L3: Entry 24 of 29

File: USPT

Apr 16, 1985

US-PAT-NO: 4511503

DOCUMENT-IDENTIFIER: US 4511503 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: April 16, 1985

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olson; Kenneth C.	Burlingame	CA		
Pai; Rong-Chang	Foster City	CA		

US-CL-CURRENT: 530/422; 435/69.1, 435/69.4, 435/948, 436/548, 530/344, 530/351,  
530/397, 530/399, 530/423, 530/806, 530/808, 530/825, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMIC	Draw Desc	Image
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## 25. Document ID: US 4511502 A

L3: Entry 25 of 29

File: USPT

Apr 16, 1985

US-PAT-NO: 4511502

DOCUMENT-IDENTIFIER: US 4511502 A

TITLE: Purification and activity assurance of precipitated heterologous proteins

DATE-ISSUED: April 16, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Builder; Stuart E.	Belmont	CA		
Ogez; John R.	San Mateo	CA		

US-CL-CURRENT: 530/417; 435/69.1, 435/69.2, 435/69.3, 435/69.4, 435/69.51, 435/948,  
436/548, 530/344, 530/397, 530/399, 530/422, 530/423, 530/427, 530/806, 530/808,  
530/825, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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26. Document ID: US 4479934 A

L3: Entry 26 of 29

File: USPT

Oct 30, 1984

US-PAT-NO: 4479934

DOCUMENT-IDENTIFIER: US 4479934 A

TITLE: Method and agent for the therapy of immunocomplex diseases

DATE-ISSUED: October 30, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sedlacek; Hans-Harald	Marburg an der Lahn			DE
Seiler; Friedrich R.	Marburg an der Lahn			DE

US-CL-CURRENT: 424/158.1; 530/389.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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27. Document ID: EP 361830 A2

L3: Entry 27 of 29

File: EPAB

Apr 4, 1990

PUB-NO: EP000361830A2

DOCUMENT-IDENTIFIER: EP 361830 A2

TITLE: Purification and refolding of recombinant proteins.

PUBN-DATE: April 4, 1990

INVENTOR-INFORMATION:

NAME	COUNTRY
BOBBITT, JESSE LEROY	
MANETTA, JOSEPH VINCENT	

US-CL-CURRENT: 530/419

INT-CL (IPC): C07K 3/08; C12P 21/02

EUR-CL (EPC): C07K001/113

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMVC	Draw Desc	Image
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28. Document ID: US 20020164712 A1 WO 9950302 A1 AU 9867164 A BR 9815788 A  
EP 1066328 A1 CN 1291199 A KR 2001042383 A

L3: Entry 28 of 29

File: DWPI

Nov 7, 2002

DERWENT-ACC-NO: 1999-610839

DERWENT-WEEK: 200275

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TITLE: New chimeric proteins containing human growth hormone fragment, used particularly for the production of human insulin

INVENTOR: GAN, Z

PRIORITY-DATA: 1998WO-CN00052 (March 31, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020164712 A1	November 7, 2002		000	C07H021/04
WO 9950302 A1	October 7, 1999	E	045	C07K019/00
AU 9867164 A	October 18, 1999		000	C07K019/00
BR 9815788 A	November 28, 2000		000	C07K019/00
EP 1066328 A1	January 10, 2001	E	000	C07K019/00
CN 1291199 A	April 11, 2001		000	C07K019/00
KR 2001042383 A	May 25, 2001		000	C07K019/00

INT-CL (IPC): C07 H 21/04; C07 K 14/61; C07 K 14/62; C07 K 19/00; C12 N 1/21; C12 N 1:21; C12 N 5/06; C12 N 9/64; C12 N 15/62; C12 P 21/02; C12 R 1:19; C12 N 1/21; C12 R 1:19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMVC	Draw Desc	Image
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29. Document ID: BR 9810650 A WO 9901548 A2 EP 996713 A1 US 6068993 A US  
6281329 B1

L3: Entry 29 of 29

File: DWPI

Jul 23, 2002

DERWENT-ACC-NO: 1999-106050

DERWENT-WEEK: 200257

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TITLE: New vector for the expression of heterologous protein, e.g. insulin - may be expressed by Gram negative bacteria, useful for, e.g. treatment of cancer

INVENTOR: ASTOLFI, S ; DE LIMA, B D ; RIBEIRO TUNES DE SOUSA, H ; THIEMANN, J E ;  
VILELA, L ; ASTOLFI-FILHO, S ; DE SOUSA, H R T ; DOLABELA DE LIMA, B ; FILHO, S A ;  
TUNES DE SOUSA, H R ; ASTOLFI FILHO, S

PRIORITY-DATA: 1997US-0886967 (July 2, 1997), 1999US-0306949 (May 7, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 9810650 A	July 23, 2002		000	C12N015/00
WO 9901548 A2	January 14, 1999	E	112	C12N015/00
EP 996713 A1	May 3, 2000	E	000	C12N015/00
US 6068993 A	May 30, 2000		000	C12N015/09
US 6281329 B1	August 28, 2001		000	A61K038/28

INT-CL (IPC): A61 K 38/28; C07 K 5/00; C07 K 7/00; C12 N 1/20; C12 N 15/00; C12 N 15/09; C12 P 21/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
SULFITOLYSIS.DWPI,TDBD,EPAB,USPT,PGPB.	131
SULFITOLYSI	0
PROTEIN?	0
PROTEINA.DWPI,TDBD,EPAB,USPT,PGPB.	44
PROTEINB.DWPI,TDBD,EPAB,USPT,PGPB.	1
PROTEINC.DWPI,TDBD,EPAB,USPT,PGPB.	5
PROTEIND.DWPI,TDBD,EPAB,USPT,PGPB.	4
PROTEINE.DWPI,TDBD,EPAB,USPT,PGPB.	137
PROTEINF.DWPI,TDBD,EPAB,USPT,PGPB.	1
PROTEING.DWPI,TDBD,EPAB,USPT,PGPB.	42
(SULFITOLYSIS SAME PROTEIN?).USPT,PGPB,EPAB,DWPI,TDBD.	29

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**Search Results - Record(s) 1 through 4 of 4 returned.****1. Document ID: US 20020064835 A1**

L2: Entry 1 of 4

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020064835 A1

TITLE: Purification of human troponin I

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conn, Gregory	Cary	NC	US	
Reardon, Brian	Seattle	WA	US	
Zeng, Xianfang	Northborough	MA	US	
Zhang, Chenming	Blacksburg	VA	US	

US-CL-CURRENT: 435/71.2; 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGs	Draw Desc	Image
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**2. Document ID: US 4894340 A**

L2: Entry 2 of 4

File: USPT

Jan 16, 1990

US-PAT-NO: 4894340

DOCUMENT-IDENTIFIER: US 4894340 A

TITLE: Microbial sulfhydryl oxidase and method

DATE-ISSUED: January 16, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hammer, Frank E.	Schaumburg	IL		
Scott, Don	Schaumburg	IL		
Wagner, Fred W.	Lincoln	NE		
Ray, Lee	Elk Grove Village	IL		
de la Motte, Rebecca S.	Lincoln	NE		

US-CL-CURRENT: 435/189; 435/183, 435/917

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGs	Draw Desc	Image
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## 3. Document ID: US 4734362 A

L2: Entry 3 of 4

File: USPT

Mar 29, 1988

US-PAT-NO: 4734362

DOCUMENT-IDENTIFIER: US 4734362 A

TITLE: Process for purifying recombinant proteins, and products thereof

DATE-ISSUED: March 29, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; Chung-Ho	Milford	MA		
Thorn; Richard	Milford	MA		
Riggin; Charles	Hopdale	MA		
Marciani; Dante	Hopkinton	MA		

US-CL-CURRENT: 435/68.1; 435/5, 435/69.1, 435/69.3, 436/533, 436/534, 436/547,  
530/412, 530/826

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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## 4. Document ID: US 4369037 A

L2: Entry 4 of 4

File: USPT

Jan 18, 1983

US-PAT-NO: 4369037

DOCUMENT-IDENTIFIER: US 4369037 A

TITLE: Hair treatment cosmetics containing cationic keratin derivatives

DATE-ISSUED: January 18, 1983

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsunaga; Kinjiro	Miyashiro			JP
Okumura; Takeo	Sakura			JP
Tsushima; Rikio	Wakayama			JP

US-CL-CURRENT: 8/127.51; 424/47, 424/70.14, 530/357, 530/409, 530/410, 8/401, 8/405,  
8/433

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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Term	Documents
SODIUM.DWPI,TDBD,EPAB,USPT,PGPB.	573000
SODIUMS.DWPI,TDBD,EPAB,USPT,PGPB.	74
SODIA.DWPI,TDBD,EPAB,USPT,PGPB.	19
SODIAS	0
SULFITE.DWPI,TDBD,EPAB,USPT,PGPB.	33089
SULPHITES.DWPI,TDBD,EPAB,USPT,PGPB.	1907
SULPHITE.DWPI,TDBD,EPAB,USPT,PGPB.	19264
SULFITES.DWPI,TDBD,EPAB,USPT,PGPB.	6637
SULFHIDRYL.DWPI,TDBD,EPAB,USPT,PGPB.	9466
SULFHIDRYLS.DWPI,TDBD,EPAB,USPT,PGPB.	725
PROTECTING.DWPI,TDBD,EPAB,USPT,PGPB.	259762
((SODIUM ADJ SULFITE) SAME SULFHIDRYL AND (PROTECTING OR PROTECTED) AND PROTEIN?).USPT,PGPB,EPAB,DWPI,TDBD.	4

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